

CHERNOUDOV, Nikolay Nikolayevich; SUKHANOVSKIY, Aleksey Il'ich;  
GRIGOR'YEV, P.I., retsentsent; POPOV, V.A., red.; GORYUNOVA,  
L.K., red.isd-va; BRATISHKO, L.V., tekhn.red.

[Planning the unit cost in logging, floating, and timber  
transshipment] Planirovanie sebestoimosti produktsii leso-  
ekspluatatsii i stoimosti splavnykh i lesoperevalochnykh rabot.  
Moskva, Goslesbunizdat, 1959. 260 p. (MIRA 13:11)  
(Lumbering--Costs)

1. GRIGOR'EV, I. E., BAKALOV, P. A.
2. USSR (600)
4. Chkalov Province - Horses
7. Sol'-Iletsk State Breeding Center for Saddle Horses in Chkalov Province, Konevodstvo 23, no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

USSR/Farm Animals. Horses.

Abs Jour: Izv Zhur-Biol., No 20, 1958, 92535.

Author : Grigor'ev, P.M.

Inst : Novosibirsk Agricultural Institute

Title : Improving Saddle Horse Breeds in the Kolkozoes of the  
Sol-Ilets State Breeding Farm in Chkalovskaya Oblast'.

Orig. Pub: Tr. Novosib. s.-kh. in-ta, 11, 248-257.

Abstract: No abstract.

Card : 1/1

USSR/Farm Animals. Domestic Fowls

Q-5

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35758

Author : ~~Grigoriyev F.M.~~ Myrshin N.M.

Inst : Not Given

Title : On Certain Changes in the Behavior of Hens under Altered Schedule of the Working Day (O nekotorykh izmeneniyekh v povedenii kur pri izmenennoy rasporyedke rabochego dnya)

Orig Pub : Tr. Novosib. s.-kh. in-ta, 11, 269-277

Abstract : In 1953, beginning from mid-February, the night feeding of hens was carried out in two kolkhozes of the Chkalov Oblast'. Without augmenting the standard rations, the lighting of the poultry house during night feeding increased the laying output from 772 eggs to 1,100 in February and 4,743 eggs in March. At the educational experimental aviary, in 1954-1955, a two-interval day schedule was introduced. The feed rations were complete and varied. At 11 p.m., the poultry house was lighted with electric bulbs, and feed and water were supplied. The average egg production per laying hen was 29

Crd : 1/2

USSR/Farm Animals. Domestic Fowls

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35758

eggs per month. The Lossevyye hens were laying 35 eggs, the New Hampshires, 31 eggs, and the Zagerakiye hens, 21 eggs. In December, the production of eggs in the poultry house was (in %) 1.6; in January, 19; in February, 28; and in March, 51.4. A considerable number of eggs laid at night was at first without eggshells and some of them consisted only of the yolk and its membrane.

Crd : 2/2

*Grigor'yev, P. M.*

112-6-11798

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr6,p.5 (USSR)

AUTHOR: Grigor'yev, P.M.

TITLE: Ground-Wire Protection for Portable Equipment (Zashchitnoye ustroystvo provoda zazemleniya dlya perenosnogo oborudovaniya). Collection of efficiency suggestions, Ministry of Electrotechnical Industry, USSR, 1956, #3(61), pp.16-17. (Sbornik ratsionalizatorskikh predlozheniy)

ABSTRACT: Bibliographic entry.

ASSOCIATION: Ministry of Electrotechnical Industry, USSR (Ministerstvo Elektrotekhnicheskoy promyshlennosti SSSR)

Card 1/1

ORIGOR'YEV, P.M., master.

Stand for testing electric drills and manual electric instruments.  
Energetik 4 no.6:28 Je '56. (MLRA 9:8)

(Drilling and boring machinery--Testing)  
(Electric instruments--Testing)

ORIGOR'YEV, P.M., master.

Checking the working order of protective grounding or neutral grounding  
for portable equipment. Energetik 4 no.9:19-20 S '56. (MIRA 19-10)  
(Electric currents--Grounding)

GRIGOR'YEV, P.M.

Through-inductive heating of steel with current on industrial  
frequencies. Prom.energ. 12 no.6:10 Je '57. (MLBA 10:7)  
(Steel--Electrometallurgy)

GRIGOR'YEV, Pavel Matveyevich; SUKHOV, I.V., inzh., red.; SHILLING,  
V.A., red. izd-va; GVIRTIS, V.L., tekhn. red.

[Safe operation of electric tools]Bezopasnye metody raboty  
elektrifitsirovannym instrumentom; opyt zavoda "Elektrosila."  
Leningrad, 1962. 18 p. (Leningradskii dom nauchno-tekhnicheskoi  
propagandy. Obmen peredovym opytom. Seriya: Mekhanicheskaya obrabotka, no.16)  
(MIRA 15:1C)  
(Power tools—Safety measures)

GRIGOR'YEV, P.M., elektrik; KURNAKOV, S.N.

Heating of rotor bands of turbogenerators by current of commercial  
frequency. Energetik 10 no.12:19-20 D '62. (MIRA 16:1)  
(Turbogenerators)

GRIGOR'YEV, P.N.

Bits with V-shaped teeth used in boreholes of the Tatar A.S.S.R.  
Burenie no.6:3-4 '64. (MIRA 16:5)

1. Trest "Tatburneft".

GRIGORIYEV, I.I., IMYADOV, Ya.P.; ASHAPYEV, P.I., BAFYEV, M.B.

Nature of the wear of bit ripper during drilling. H-97. Khaz.  
43 no.3:12-15 Mr '65. (MIRA 18:6)

GRIGOR'YEV, P.N.; ASTAF'YEV, P.I.; BAREYEV, M.B.

Method for processing factual data on drilling techniques. Neft.  
khoz. 43 no.9:1-7 S '65. (MIRA 18:10)

ASTAF'YEV, I.I.; DAREYEV, M.B.; GRIGOR'YEV, P.N.; IL'YASOV, G.P.

Comparative efficiency of drilling using bits of decreased  
diameter with various bottom-hole engines. Neft. khoz. 4:  
no.2:10-15 P '65. (MIRA 18:4)

GRIGOR'YEV, P.P.

Second yearly litter of moles in White Russia. Zool.shur. 33  
no.3:717-719 My-Je '54. (MLRA 7:7)

1. Baranovichskiy uchitel'skiy institut.  
(White Russia--Moles (Animals)) (Moles (Animals)--White  
Russia)

GRIGOR'YEV, P.P., kand.biologicheskikh nauk

"Excursion guide to birds of the European part of the U.S.S.R."  
by A.N. Sungurov. Reviewed by P.P. Grigor'ev. Biol. v shkole  
no.5:90-91 S-O '61. (MIRA 14:9)

1. Gomel'skiy pedagogicheskiy institut.  
(Birds--Identification)  
(Sungurov, A.N.)

GRIGOR'YEV, P.P. [Hryhor'eu, P.P.]

Some endo- and ectoparasites of moles in White Russia. Vestn:  
AN BSSR Ser. biol. nav. no.3:121-129 \*63 (MIRA 17:7)

GRIGOR'YEV, P.S.

Use of coronary vessel dilating substances in the treatment of  
stenocardia. Vrach. delo no.12:40-43 D '61. (MIRA 15:1)

1. Fakultetskaya terapevticheskaya klinika (zav. - prof. N.Ye.  
Kavetskiy) Baybyshevskogo meditsinskogo instituta.  
(ANGINA PECTORIS) (VASODILATORS)

GRIGOR'YEV, P.S.

New preparations for the treatment of stenocardia. Sov. Med.  
26 no.9:101-104 9 '62. (MIRA 17:4)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - zasluzhennyy  
deyatel' nauki prof. N.Ye. Kavetskiy) Kubyshevskogo meditsinskogo  
instituta.

GRINBERG, Ya.M., dotsent; GRIGOR'YEV, P.S.; BOTSUYURA, N.N.; GOL'DBERG, B.M.;  
NOSOVA, N.P.

Some problems concerning the etiology and clinical aspects of  
chronic hepatitis. Kaz. med. zhur. no.5:8-10 S-0'63

(MIRA 16:12)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - prof.  
N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.

STUPNITSKIY, A.A., kand. med. nauk (Kuybyshev); GRIGOR'YEV, P.S.  
(Kuybyshev)

Shortening the time for preparing the concha auriculae  
for oximetry. Klin. med. 40 no.12:129-130 D '62.  
(MIRA 17:2)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - zaslu-  
zhennyy deyatel' nauki prof. N.Ye. Kavetskiy) Kuybyshevskogo  
meditsinskogo instituta.

GRIGOR'YEV, P.S.; RUDOV, B.D.; ZHIRKINA, A.P.

Experience with the use of fubromegan in stenocardia. Kaz. med.  
zhur. no.6:58-59 N-D '63. (MIRA 17:10)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - prof. N.Ye.  
Kavetskiy) Kuybyshevskogo meditsinskogo instituta.

GRIGORIYEV, P. S.

Treatment of angina pectoris with ethaphen. Kardiologiya  
no.1:68 69 '64. (MIFA 17:10)

1. Fakul'tetskaya terapevticheskaya klinika (zav.- prof.  
N.Ye. Kavetskiy, Kuybyshevskogo meditsinskogo instituta.

GRIGOR'YEV, P. V. and O. B. VASIL'YEV.

"Photometric Observations of the Solar Corona With Automatic Aerial  
Cameras During the Total Solar Eclipse of June 30, 1954"

Total Eclipse of the Sun, February 29, 1952 and June 30, 1954. Transactions of the  
Academy of Sciences (USSR) (Eclipses) Moscow, 1954, 1955, 1957.

GRIGORI'YEV, P. V.

USSR/Who's Who - Economic 7319  
Legislation 3122.0400

4 Oct 1947

"132. Concerning the Membership of the Collegium of the Main Administration of Hydrolytic and Sulphite-Alcohol Industry of the Soviet of Ministers of the USSR" 1 p

"Sobraniye Postanovleniy Sovmin SSSR" No 7

Decree No 2999, 26 Aug 1947, calls for the confirmation of the collegium of the Main Administration of Hydrolytic and Sulphite-Alcohol Industry of the Soviet of Ministers composed of: V. S. Chuyenkov, P. V. Grigor'yev, S. V. Chepigo, V. Ye. Lazutkin, and P. V. Mashkovich.

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8/035/50/000/04/12/017  
ACCESSION

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 4,  
p. 44, # 3178

AUTHORS: Grigor'yev, P. V., Vasil'yev, O. B.

TITLE: Photometric Observations of the Solar Corona With Automatic Aerial  
Cameras at the Total Solar Eclipse of 1954, June 30

PERIODICAL: V sb.: Polnyye solnechn. zatmeniya 25 fevr. 1952 i 30 iyunya 1954,  
Moscow, AN SSSR, 1958, pp. 207-222

TEXT: The results of processing the photographs of the solar corona taken  
by an expedition of LGU in Yeysk at the total solar eclipse are reported. Auto-  
matic aerial cameras made it possible to take 100 photographs of the solar corona  
during the time of the total phase (124 sec). The cameras had Industar-17 lenses  
(F=50 cm, D=10 cm); exposures lasted 1/100 sec and intervals between them 3 sec.  
Photographing was made on aerial photofilms of two types in combination with  
various glass light filters: panchromatic film with red and orange filters,  
isochromatic film with yellow, light-yellow filters and without a filter. This  
arrangement made it possible to take photographs in five regions of spectrum ✓

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3/035/50/000/04/12/017  
AG01/AG01

Photometric Observations of the Solar Corona with Automatic Aerial Cameras at the Total Solar Eclipse of 1954, June 30

with different effective wavelengths. Calibration was carried out by means of a tubular photometer whose scale was printed-in along the whole film on its both sides. Negatives were measured on a Hartmann microphotometer by the usual method, in intervals of 0.01-0.02 mm along diameters of the solar disk and of  $10^\circ$  in position angle. Relative brightnesses of the solar corona at various wavelengths were obtained. The variation of brightness in the solar corona with a distance from the solar disk center is well represented by the formula:  $E = N/R^n$ . The values of empirically chosen coefficients  $N$  and  $n$  are tabulated. The course of corona brightness for various  $\lambda_{eff}$  is presented, as well as isophotes of the corona; degrees of isophote flattening are calculated. The corona of 1954 is characteristic for the epoch of solar activity minimum. Standardization on the basis of Moon's photographs taken at full moon was unsatisfactory. It is pointed out that standardization is possible on the basis of photographs of a white plate arranged normally to solar rays. Photographs of the solar corona at various wavelengths, tables and graphs are presented.

V. F. Yesipov

Card 2/2

GRIGOROV, Valentin Alekseyevich; GRIGOR'YEV, Pavel Vasil'yovich; SARIN,  
Valeriy Ivanovich; SLIVIN, Grigoriy Andreyevich; CHERKASHEVITS,  
R.G., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Narrow-gage TU2 diesel locomotive] Uzkokoleinyi teplovoz TU2.  
Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 222 p. (MIRA 12:1)  
(Locomotives)

GRUMENYSEV, Nikolay Aleksandrovich, inzh.; SHKABEL'NIKOV, Gennadiy  
Petrovich, inzh.; GRIGOR'YEV, Pavel Vasil'yevich, inzh.;  
POPOV, Ye.I., inzh., red.; KHITROV, P.A., tekhn.red.

[Railroad motorcars; design, operation, and maintenance]  
Motovozy i avtodreziny; ustroistvo, ekspluatatsiya i ukhod.  
Moskva, Gos.transp.shel-dor.izd-vo, 1959. 245 p. (MIRA 13:2)  
(Railroad motorcars)

ZAKHAROV, Yu. Yu., kand. tekhn. nauk, dotsent; GRIGOR'YEV, P. I., inzh.;  
RYAZHKOVA, Yu. G., aspirant; YAKIMOVA, I. D., inzh.

Calculating the time of valve shifts in control systems of  
hydraulic transmissions. Izv. vys. ucheb. zav.; mashinostr.  
no. 10:112-122 '65 (MIRA 19:1)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche im. Bauman.  
Submitted December 13, 1963.

KENGIS, Robert Petrovich; GRIGOR'YEV, P.Ya., red.; KAGANOVA, A.A., red.;  
LOBANOV, D.I., red.; MANELIS, A.Ya., red.; PROTOPOPOV, S.I., red.;  
SIDOROV, V.A., red.; TROFIMOVA, V.I., red.; MEDRISH, D.M.,  
tekhn.red.

[Dough products] Izdeliia iz testa. Moskva, Gos.izd-vo torg.  
lit-ry, 1960. 182 p. (MIRA 13:9)  
(Dough) (Confectionery)

GROZNOV, Sergey Romanovich; NIKASHIN, Filipp Petrovich; GRIGOR'YEV, P.Ya..  
red.; KAGANOVA, A.A., red.; LOBANOV, D.I., red.; MANELIS, A.Ya.,  
red.; PROTOPOPOV, S.I., red.; SIDOROV, V.A., red.; TROFIMOVA,  
V.I., red.; MEDRISH, D.M., tekhn.red.

[Meat dishes] Miasnye bluda. Moskva, Gos.isd-vo torg.lit-ry.  
1960. 222 p. (MIRA 13:11)  
(Cookery (Meat))

L 33678-66 EWT(d)/EWT(i)/EWT(m)/EWT(k)/EWT(h)/I/EWT(v)/EWT(z) AB/DJ/BC  
ACC NR: AP6013813 (A) SOURCE CODE: UR/0145/65/000/010/0112/0122

AUTHOR: Zakharov, Yu. Ye. (Candidate of technical sciences);  
Grigor'yev, P. V. (Engineer); Ryazhkov, Yu. G. (Aspirant); Yakimova,  
L. D. (Engineer)

ORG: MVTU im. N. E. Bauman

TITLE: Calculation of the switch-over time for valves in hydraulic  
control systems

SOURCE: IVUZ. Mashinostroyeniye, no. 10, 1965, 112-122

TOPIC TAGS: valve, hydraulic device, flow control, vehicle power  
transmission system

ABSTRACT: The aim of the present article is to furnish designers of  
control systems with a set of ready made formulas and graphs which make  
it possible to determine the switch-over time of typical elements of the  
hydraulic transmission box of locomotives. The article is based on a  
theoretical and experimental investigation of the hydraulic control  
systems of Type TCK-2 locomotives and Type UGP 750-1200 hydraulic  
transmissions. The mathematical development is based on the following  
assumptions: 1) the temperature and viscosity of the working fluid, etc.

UDC: 625.282

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L 33678-66

ACC NR: AP6013813

constant; 2) the compressibility of the working fluid is neglected; and, 3) the force of dry friction is assumed to be constant over the model. The article gives detailed drawings of the operating mechanism of the hydraulic transmission boxes and a series of curves based on formulas in dimensionless variables. Orig. art. has: 32 formulas and 5 figures.

SUB CODE: 13/ SUBM DATE: 13Dec63.

Cerd 2/2

GRIGOR'YEV, P.Ya.

Pernicious anemia. Feldsher & akush. no.11:27-31 Nov 1953. (CML 25:5)

1. Bikin, Khabarovsk Kray.

GRIGOR'YEV, P. Ya.: Master Med Sci (diss) -- "Delayed results of infectious hepatitis (Based on material from the hospitals of the Amur residence houses for 1950-1955)". Khabarovsk, 1958. 17 pp (Khabarovsk State Med Inst), 300 copies (KL, No 6, 1959, 143)

GRIGOR'YEV, P.Ya.

Late sequelae of Botkin's disease; from data of the Amur  
Railway Hospital; 1950-1955. Sov.med.22 no.10:57-65 0'58 (MIRA 11:11)

1. Glavnyy terapevt Vrachebno-sanitarnoy sluzhby Amurskoy zheleznoy  
dorogi.

(HEPATITIS, INFECTIOUS, compl.  
remote sequ. (Rus))

GRIGOR'YEV, P.Ya. (g. Svobodnyy Amurskoy oblasti)

Late results of Botkin's disease. Fel'd. i akush. 23 no.3:23-27  
Mr '58.

(MIRA 11:4)

(HEPATITIS, INFECTIOUS)

GRIGOR'YEV, P.Ya., kand.mod.nauk (Chita)

Modern methods for treating leukemias. Fel'd. i akush. 26  
no. 2:7-11 F '61. (MIRA 14:4)  
(LEUKEMIA)

GRIGOR'YEV, P.Ya.; PLASTUNOV, V.M.

Course of hypertension at Kul'dur health resort. Vop.kur., fizioter.  
i lech.fiz.kul't. 27 no.3:248-251 My-Je '62. (MIRA 15:9)

1. S kurorta Kul'dur (glavnyy vrach V.M.Plastunov).  
(HYPERTENSION)  
(KUL'DUR--HEALTH RESORTS, WATERING-PLACES, ETC.)

ANAN'YEV, Aleksey Anan'yevich; GRIGOR'YEV, P.Ya., red.; KAGANOVA, A.A., red.; LOBANOV, D.I., red.; MANELIS, A.Ya., red.; PROTOPOPOV, S.I., red.; SIDOROV, V.A., red.; TROFIMOVA, V.I., red.; KAGANOVA, A.A., red.; VOLKOVA, V.G., tekhn. red.

[Soups] Supy. Izd.7. Moskva, Gostorgizdat, 1963. 158 p.  
(MIRA 16:5)

(Soups)

GRIGOR'YEV, P.Ya.

Use of apparatus DSU-61 for the determination of the functional state of the thyroid gland in an endemic goiter area. Probl. endok. i gorm. 11 no.6:31-36 N-D '65.

(MIRA 18:12)

1. Kafedra fakul'tetskoy terapii (zav. - dotsent P.Ya. Grigor'yev) Blagoveshchenskogo-na-Amure meditsinskogo instituta i Oblastnoy protivozobnyy dispanser (glavnyy vrach I.M. Yermakova), Blagoveshchensk-na-Amure.

AUTHOR: Grigor'yev, R.

SOV-25-58-7-35/56

TITLE: An Interesting Project (Interesnyy proyekt)

PERIODICAL: Nauka i zhizn', 1958, Nr 7, p 66 (USSR)

ABSTRACT: The article deals with a "well-grounded" suggestion of P.A. Tsander, an "enthusiast of interplanetary flights", how to bring winged rockets back to earth after the completion of cosmic flights. Details are not given. A student, I. Sevast'yanov refers to the problem of successfully braking the motion of artificial earth satellites by motive power and atmosphere before gliding down to Earth. There is 1 diagram

1. Satellite vehicles--Control systems    2. Rockets--Control systems

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31(5)

30V/25-59-6-28/49

AUTHOR: Grigor'yev, R., Engineer

TITLE: A "Pocket" Boat

PERIODICAL: Nauka i zhizn', 1959, Nr 6, p 65-65 and p 4 of centerfold (USSR)

ABSTRACT: The author presents the prototype of a "pocket" boat constructed by Engineer A.I. Boldyrev and Mechanic N.I. Yegorov, collaborators of the Moskovskiy aviatsionnyy institut (Moscow Aviation Institute). The boat can be assembled or disassembled within 10 to 15 minutes. It forms a roll 200 mm in diameter, 1 m long and weighs 9 kg. No bolts or screws are needed. The entire boat consists of 15 m Duralumin pipes with a cross section of 18x16 mm and 6 m of 3x18 mm cross section duralumin pipes. Duralumin pipes can be replaced by bamboo or wooden ones. To obtain bottom and side walls, waterproof cloth is used in 9-m by 70 cm panels. The seats are made of 6 to 8 mm thick plywood plates. The load capacity of the boat is 250 kg. Its length is 3,000 mm maximum width 800 mm maximum height 450 mm. It can be

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SOV/25-52-6-28/49

A "Pocket" Boat

propelled by paddles and by sails. Mass production of the boat has been started in one of the enterprises administered by the Moskovskiy gorodskiy sovnarkhoz (Moscow City National Economy Council). There is 1 set of diagrams.

Card 2/2

~~10.6000~~ 10.6000(A)

689000

S/025/60/001/04/036/061  
D048/D002

AUTHOR: Grigor'yev, R., Engineer

TITLE: A Flying Platform

PERIODICAL: Nauka i zhizn', 1960, Nr 4, pp 66-67 (USSR)

ABSTRACT: The author gives historical data on the development of a helicopter and mentions in this connection M.V. Lomonosov, B.N. Yur'yev, A.M. Cheremukhin, M.L. Mil', A.S. Yakovlev and N.I. Kamov. A disadvantage of the former types of helicopters is the large rotor which is difficult to make and has a relatively short service time. Drawings show two models of multi-rotor flying platforms, which have been developed with the assistance of Professor I.P. Bratukhin at the Moskovskiy aviatsionnyy institut imeni Sergo Ordzhonikidze (Moscow Aviation Institute imeni Sergo Ordzhonikidze) and have a lifting capacity of 40,000 kg. The rotors are placed in ring-

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S/025/60/001/04/036/061

DO48/DO02

A Flying Platform

shaped channels covered with gratings. The cabin is in the middle of the platform which has 4 rotors instead of one or two. Each of them has a diameter of 1.8 meters. Due to the fact, that the rotors are placed in channels, a greater traction is obtained than during the use of one isolated rotor. The designers have provided for the inclination in front of the rotors to reach the forward motion without increasing the air resistance. A still more effective forward motion can be reached by placing an additional rotor on the platform analogous to the rotor of the aircraft. The simple construction, the reliability of the aircraft and the possibility to maneuver it at low altitudes makes the new platform a promising aircraft. In the near future it will be used in the national economy. There are 2 drawings.

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Card 2/2

1(2)

S/025/60/000/05/025/044  
D048/D006

AUTHOR: Grigor'yev, R., Engineer

TITLE: A Tail-less Aircraft <sup>^</sup>

PERIODICAL: Nauka i zhizn', 1960, Nr 5, pp 65-66 (USSR)

ABSTRACT: Many Soviet designers including V. Belvavev, B. Cheranovskiy and I. Kostenko have attempted to develop a tail-less aircraft. A group of specialists of the kafedra "Konstruktsiya i proyektirovaniye samoletov" Moskovskogo aviatsionnogo instituta imeni Ordzhonikidze (the Chair of "Aircraft Design and Planning" of the Moscow Aviation Institute imeni Ordzhonikidze) under Professor N.A. Pomin have developed a new type of a flying-wing, models of which have been tested in wind tunnels. The wing has a considerable reverse sweep with horizontal terminal "fins". Special devices on the trailing edge, so-

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S/025/60/000/05/025/044  
D048/D006

A Tail-less Aircraft

called ailerons, permit turning. There are 2 illustrations.

Card 2/2



GRIGOR'YEV, R.G. (Moskva)

The flight of Gordon Cooper. Priroda 52 no.7:107-108 J1 '63.  
(MIRA 16:8)  
(United States--Astronautics)

GRIGORJEW, R. [Grigor'yev, R.]

The cosmos and earth sciences. Horyz techn 17 no.11:6-9  
N '64.

GRIGOR'YEV, R.N.

Problem of the cause of nonspecific reactions in the serological  
diagnosis of pathogenic enterobacteria in a mixed culture.

Zhur. mikrobiol. epid. i immun. 31 no. 4:123-128 Ap '60.

(MIRA 13:10)

(DYSENTERY)

GRIGOR'YEV, R. Sh.

GRIGOR'YEV, R. Sh. - "Synthesis of Certain Homologs and Analogs of Cyclamen-Aldehyde." Sub 26 Jun 52, All-Union Sci Res Inst of Synthetic and Natural Essential Oils. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

GRIGOR'YEV, S.

Rolling mill workers have dabled their output. Sots.trud.no.3:  
95-99 Mr '56. (MIRA 9:7)  
(Dnepropetrovsk--Rolling mills) (Labor productivity)

GRIGOR'YEV, S. (g.Dneprodzerzhinsk)

Traumatism is greatly reduced. Okhr.truda i sots.strakh.

no.3:61-62 Mr '59.

(MIRA 12:4)

(Dneprodzerzhinsk--Fertilizer industry--Hygienic aspects)

GRIGOR'YEV, S.

Accelerated stratification of tree and shrubbery seeds. Zhil.-kom.  
khoz. 7 no.4:11-12 '57. (MLRA 10:7)

1. Direktor Atkarskogo pitomnika.  
(Seeds)

GRIGOR'YEV, S.

Sergei Alekseevich Bersonov; obituary. Izv.Kar.i Kol'.fil.AN  
SSSR no.4:160 '59. (MIRA 13:5)  
(Bersonov, Sergei Alekseevich, 1889-1959)

GRIGOR'YEV, S. (Astrakhan')

Petylitsyn "economizes...." Okhr. truda i sots. strakh. 6  
no.3:23-24 Mr '63. (MIRA 16:4)

(Astrakhan—Brick industry)

GRIGOR'YEV, S. insh.

Floating plant in the ocean. Tekh.mol. 28 no.9:36-39 '60.  
(MIRA 13:10)

(Whalers)

GRIGOR'YEV, S., inzh.

Two-way system of buoys and beacons. Rech. transp. 22 no.2:43-44  
F '63. (MIRA 16:5)  
(Buoys) (Beacons)

GRIGOR'YEV, S.

Damage can be avoided. Pozh.delo 7 no.3:26 Mr '61. (MIRA 14:5)

1. Starshiy master GDZS (Yaroslavl').  
(Gas masks)

GRIGOR'YEV, S. (Rostov)

Legalized whims. Isobr.i rats no.10:32 0 '62. (MIRA 15:9)  
(Rostov—Machinery industry)

GRIGOR'YEV, S.

Improving navigable conditions in natural channels. Rech. transp.  
22 no.5:42-43 My '63. (MIRA 16:8)

1. Nachal'nik tekhnicheskogo otdela Glavnogo upravleniya  
vodnykh putey i gidrotekhnicheskikh sooruzheniy Ministerstva  
rechnogo flota RSFSR.  
(Rivers--Regulation)

GRIGOR'YEV, S., inzh.

Change the arrangement of signs directing the course of  
ships. Rech.transp. 23 no.9:59 S '64.

(MIRA 19:1)

SARYCHEV, A.N.; SHINKARENKO, I.I.; GRIGOR'YEV, S.A.; KARIMOV, M.S.,  
starshiy nauchnyy sotrudnik

Using cement for the stabilization of the roadbed. Put' 1  
put. khoz. 7 no.6:19-20 '63. (MIRA 16:7)

1. Nachal'nik Nikolayevskoy distantii puti Odessko-Kishinevskoy dorogi (for Sarychev).
2. Nachal'nik proyektnoy gruppy sluzhby puti, Nikolayevskaya distantiya Odessko-Kishinevskoy dorogi (for Shinkarenko).
3. Rukovoditel' brigady proyektnoy gruppy sluzhby puti, Nikolayevskaya distantiya Odessko-Kishinevskoy dorogi (for Grigor'yev).
4. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (for Karimov).  
(Railroads—Track) (Soil stabilization)

L 07457-67 EWT(1) IJP(c)

ACC NR: AP6034936

(A)

SOURCE CODE: UR/0146/66/009/005/0003/0007

AUTHOR: Sazonov, A. M.; Belonogov, A. M.; Grigor'yev, S. B.; Strakhov, N. B.; Chernov, Yu. L. 32  
B

ORG: Leningrad Electrotechnical Institute im. V. I. Ul'yanov (Lenin) (Leningradskiy elektrotekhnicheskiy institut)

TITLE: Spectrometer for the study of broad lines of nuclear magnetic resonance

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 5, 1966, 3-7

TOPIC TAGS: spectrometer, nuclear magnetic resonance

ABSTRACT: An all-purpose nuclear magnetic resonance spectrometer has been developed for qualitative and quantitative analysis of isotopic concentrations, for the study of ultrasonic resonance absorption in the nuclei of some alkali halide crystals, and for structural measurements of natural compounds. The device incorporates commercial-type components (see Fig. 1). The NMR detector includes crossed coils and direct absorption detectors which provide high sensitivity, and a broad range of hf field intensities. The detector can register the absorption signal or dispersion signal

Card 1/2

UDC: 535.322.2

L 07457-67

ACC NR: AP6034936

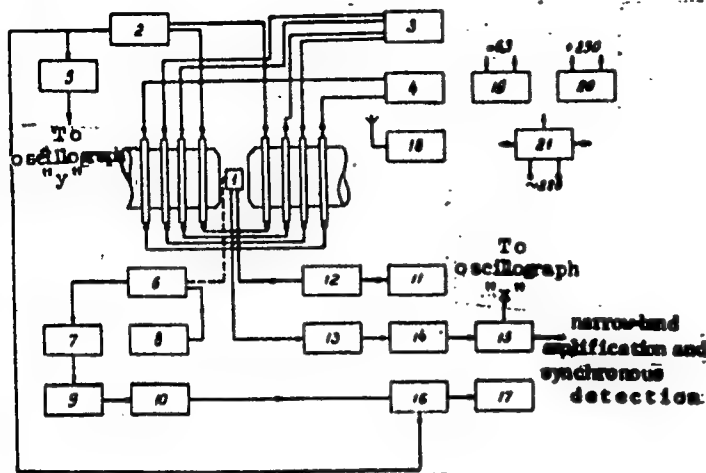


Fig. 1. Block diagram of nuclear magnetic resonance spectrometer

- 1 - NMR sensor; 2 - audio generator; 3 - device providing linear variation of magnetic field; 4 - current stabilizer; 5 - phase inverter; 6 - block of NMR detector; 7, 13 - hf amplifiers; 8, 14 - detector and voltmeter; 9 - calibrator; 10, 15 - audio amplifier; 11 - 5.2-mc crystal-controlled oscillator; 12 - power amplifier; 16 - synchronous detector; 17 - recorder; 18 - wave meter; 19, 20 - power sources; 21 - ferromagnetic stabilizer.

separately without distortion. The frequency range of the detector is 1—43 mc.

Orig. art. has: 3 figures.

SUB CODE: 20 / SUBM DATE: 25Aug65/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS: 5104

Card 2/2

L 1317-66 EWT(m) DIAAP  
ACCESSION NR: AP5012547

UR/0181/65/007/005/1389/1392

AUTHOR: Sazonov, A. M.; Grigor'yev, S. B. 44.55 49.55

TITLE: Concerning the time dependences of the establishment of equilibrium magnetization of a nuclear spin system under the influence of ultrasound 27 24-2

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1389-1392 19.44.55

TOPIC TAGS: spin system, ultrasonic effect, magnetization, nmr spectroscopy, spin lattice relaxation

ABSTRACT: The reason for the investigation is that the time dependence of the decrease in the amplitude of nuclear magnetic resonance signals under acoustic saturation has not been reported in the literature before, although such relations can yield additional information concerning the nuclear spin system. The authors therefore consider the time dependence of the saturation of a NMR signal under the influence of ultrasonic oscillations. By writing the relative amplitude of the signal in the form

$$A(t)/A_0 = b + (1 - b)\exp(-t/T_1zb),$$

it is shown that the value  $T_1$  can be determined from the experimentally plotted time dependence of the NMR signal saturation directly by experimentally determining the parameters  $A(t)/A_0$ ,  $b$ , and  $z$  ( $A$ --amplitude,  $b$ --constant,  $T_1$ --spin-lattice re-

Card 1/2

L 1317-66

ACCESSION NR: AP5012547

laxation time, z--radio-frequency field saturation factor). Values of  $1T$ -sec, 19.3  
Mcs, and 4.4 are obtained for  $T_1$ , for the dynamic quadrupole coupling constant, and  
for the antiscreening factor of  $Na^{23}$  in NaCl, respectively. The results are com-  
parable with those published by others. Orig. art. has: 1 figure and 6 formulas.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova  
(Lenina) (Leningrad Electrotechnical Institute)

SUBMITTED: 17Nov64

ENCL: 00

SUB CODE: SS

NR REF SOV: 001

OTHER: 010

Card 2/2

L 9240-66 EWT(1)/T/EWP(k) IJP(c) WH/GG  
 ACC NR: AP5022751 SOURCE CODE: UR/0181/65/007/009/2877/2879  
 44,55 44,55  
 AUTHOR: Grigor'yev, S. B.; Sazonov, A. M. 56  
 44,55  
 ORG: Leningrad Electrical Engineering Institute im. V. I. Ul'yanov (Lenin) (Leningradskiy elektrotekhnicheskiy institut) B  
 TITLE: Effect of ultrasonic excitation on nuclear magnetization in a paramagnetic material  
 SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2877-2879  
 TOPIC TAGS: theoretic physics, nuclear magnetic resonance, paramagnetic material, ultrasonic effect 21,44,55  
 ABSTRACT: An equation is derived for the total nuclear magnetization of a unit volume in a paramagnetic material taking account of population changes in energy sub-levels due to the effect of acoustic oscillations. A general solution of this equation shows that the intensity of the nuclear magnetic resonance signal, which is proportional to nuclear magnetization, decreases exponentially after acoustic pumping is started, approaching equilibrium. Orig. art. has: 7 formulas.  
 SUB CODE: 20/ SUBM DATE: 10Mar65/ ORIG REF: 002/ OTH REF: 005

Card 1/1

SAROV, A. I., ORIGIR'YEV, S. B.

Time dependence of the establishment of equilibrium magnetization of  
a nuclear spin system under the action of ultrasound. Fiz. tver. tela  
(no. 8:1387-1392 My '65. (MIFAL8:5)

Leningradskiy elektrotekhnicheskiy institut imeni "I'yanova  
'lenina .

GRIGOR'YEV, S.F. (Tomsk)

Study of morbidity among workers of the fish industry. Sov. zdrav.  
19 no. 8:60-63 '60. (MIRA 13:10)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny  
(zav. - prof. N.F. Fedotov) Tomskogo meditsinskogo instituta.  
(TOMSK PROVINCE—MORBIDITY)

GRIGOR'YEV, S.F. (Tomsk)

Ignaz Phillip Semmelweis. Fel'd. i akush. 25 no.6:38-41 Jo '60.  
(MIRA 13:9)

(SEMELWEISS, IGNAZ PHILLIP, 1818-1865)

MENDRINA, G.I., dotsent; GRIGOR'YEV, S.F.

Professor Nikolai Petrovich Fedotov; on his 60th birthday.  
Sov. zdrav. 21 no.3:99-100 '62. (MIRA 15:3)  
(FEDOTOV, NIKOLAI PETROVICH, 1901-)

MENDRINA, G.I., dotsent; STARIKOV, N.M., dotsent; GRIGOR'YEV, S.F.

Interprovince conference on the regional history of medicine and  
public helath in Siberia. Sov.zdrav. 20 no.1:93-96 '61.  
(MIRA 14:5)

(SIBERIA—PUBLIC HEALTH—CONGRESSES)

GRIGOR'YEV, S.I.

A school screen for the showing of films in an undarkened classroom.  
Politekh. obuch. no.9:83-84 S '57. (MLBA 10:9)

1. Starshiy tekhnik-instruktor gorodskoy fil'moteki Mosgorono.  
(Motion pictures in education) (Motion-picture screens)

GRIGOR'YEV, V.I., inzh.

Calculating water hammer in hydroelectric power plants.  
Energomashinostroenie 9 no.7:35-38 J1 '63. (MIRA 16:7)

(Water hammer) (Hydroelectric power stations)

~~GRIGOR'YEV, Sergey Mikhaylovich; LUR'YE, Abram Bentsianovich; MEL'NIKOV, Sergey Vasvolodovich; LETOSHNEV, M.N., professor, doktor tekhnicheskikh nauk, redaktor; CHAPSKIY, O.U., redaktor; MOLODTSOVA, N.G., tekhnicheskiiy redaktor~~

[Agricultural machinery and implements; laboratory work, home assignments, course work and diploma projects] Sel'skokhoziaistvennye mashiny i orudiya; laboratornye raboty, domashnie zadaniya, kursovye raboty i diplomnye proektirovaniya. Pod red. M.N. Letoshneva. Moskva, Gosizd-vo sel'khoz.lit-ry, 1957. 383 p. (MLRA 10:10)  
(Agricultural machinery)

SKOVORODA, Konstantin Martynovich; GRIGOR'YEV, Sergey Ivanovich

[Production allotments for consumer goods and how to determine them] Balansy tovarov narodnogo potrebleniia i metody ikh razrabotki. Moskva, Gosplanizdat, 1959. 165 p.

(MIRA 13:7)

(Russia--Commerce) (Consumption (Economics))

ANTIPIN, Veniamin Georgiyevich; GRIGOR'YEV, Sergey Mikhaylovich; LUR'YE,  
Abram Bentsianovich; CHAPSKIY, O.U., red.; MOLODTSOV, N.G., tekhn. red.

[Grain combines, windrowers, and pick-up mechanisms: structure,  
operation and maintenance] Zenuborochnye kombainy, riadkovye  
zhatki i podborshchiki; ustroistvo, regulirovka, tekhnicheskiy ukhod.  
Izd. 2-oe, perer. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957.  
(MIRA 10:12)

559 p.

(Combines (Agricultural machinery))

GRIGOR'YEV, S.M. (Moskva); KNYAZEVA, M.S. (Moskva); PRONINA, M.V.  
(Moskva)

Chemical properties of neutral sulfur compounds entering into  
the composition of crude shale tar phenols. Izv.AN SSSR.Otd.  
tekh.nauk.Met.1 topl. no.3:144-146 My-Je '60.

(MIRA 13:6)

(Phenols--Analysis) (Sulfur compounds)

ANTIPIL, Vladimir Georgiyovich; GRIGOR'YEV, Sergey Mikhaylovich; -  
LUN'YE, Abram Bentsianovich; CHAPSKIY, O.U., red.; BAIKALOVA,  
L.G., tekhn. red.

[Grain harvesting combines and the organization of combine  
harvesting of grain crops] Zernouborochnye kombainy i organi-  
zatsiya kombinovoi uborki zernovykh kul'tur. Leningrad, Sel'-  
khozizdat, 1962. 383 p. (MIRA 15:10)  
(Combines (Agricultural machinery))  
(Grain-Harvesting)

GRIGOR'YEV, S. M.

CA

Production of highly concentrated anthracene and carbazole. V. N. Khadzhinov and S. M. Grigor'ev. *Org. Chem. Ind. (U. S. S. R.)* 4, 345-53 (1957).—Optimum conditions for the continuous production of highly concd. anthracene (I) and carbazole (II) are described. Crude I (31-5%), obtained by recrystn. of the crude substance from heavy benzene, is further enriched by 2 alternate crystallizations from hot solns. in crude pyridine, b. 140-70° (in proportions of 1 part to 2 and 4 parts of solvent, resp.) and filtration at 25-5° (cf. Ger. pat. 42,058). The resulting 75-80% I is then recrystd. from 10 parts of crude benzene or xylene, the product is centrifuged at 25° and dried, affording on the basis of 100% I, 65% of 99% I, m. 216.7-17°.

The balance of I is obtained in the recovery of solvents and is returned to the production cycle. To obtain pure I from the crude I (61%) prepd. by the previous method (cf. Nikolait and Kh., *C. A.* 30, 5780<sup>19</sup>), it is first freed from the resinous matter by distn. at 320° and then crystallized once from crude pyridine and twice from xylene as

above; yield, 65%. II is obtained from the chain residue formed in the recovery of pyridine from the I filtrate. The residue when freed from the resinous matter by distn. (60-70° II) and recrystd. from 10 vols of heavy benzene or xylene gave 66% of 99% II, m. 212-3°. A yield of 92.7% of 99.4% II was obtained by hydrogenating crude I by the previous method (C. A. 29, 8280<sup>19</sup>) and recrystg. crude II (76.6%) from heavy benzene. The method of concn with furfural (U. S. pat. 172,297) gave inferior results. Production of highly concentrated phenanthrene. I. D. Gluzman and M. M. Krawitskaya. *Ibid.* 353-62. The filtrate obtained in the enrichment of crude I with various solvents (preferably with heavy benzene) is distilled, the fraction b. 300-50° is freed from the oil by filtering at 25-50 atm. pressure and the filter cake (50-60% phenanthrene) is heated at 100-200° with 15-25% of H<sub>2</sub>SO<sub>4</sub> (d. 1.84) for 2-3 hrs. (cf. Russ. 43,418; C. A. 31, 7448<sup>19</sup>). The sulfonation must be freed from the bulk of acid and then washed to a neutral reaction with H<sub>2</sub>O at 80-100°. The melt is then distilled to obtain the fraction b. 330-6°, giving 50-60% of 98-99% phenanthrene, m. 93-5°. To obtain 98-99% product, m. 95-7° (30% yield), the filter cake is treated twice with H<sub>2</sub>SO<sub>4</sub>, and then processed as above.

Chas. Blane

ASD-51A METALLURGICAL LITERATURE CLASSIFICATION

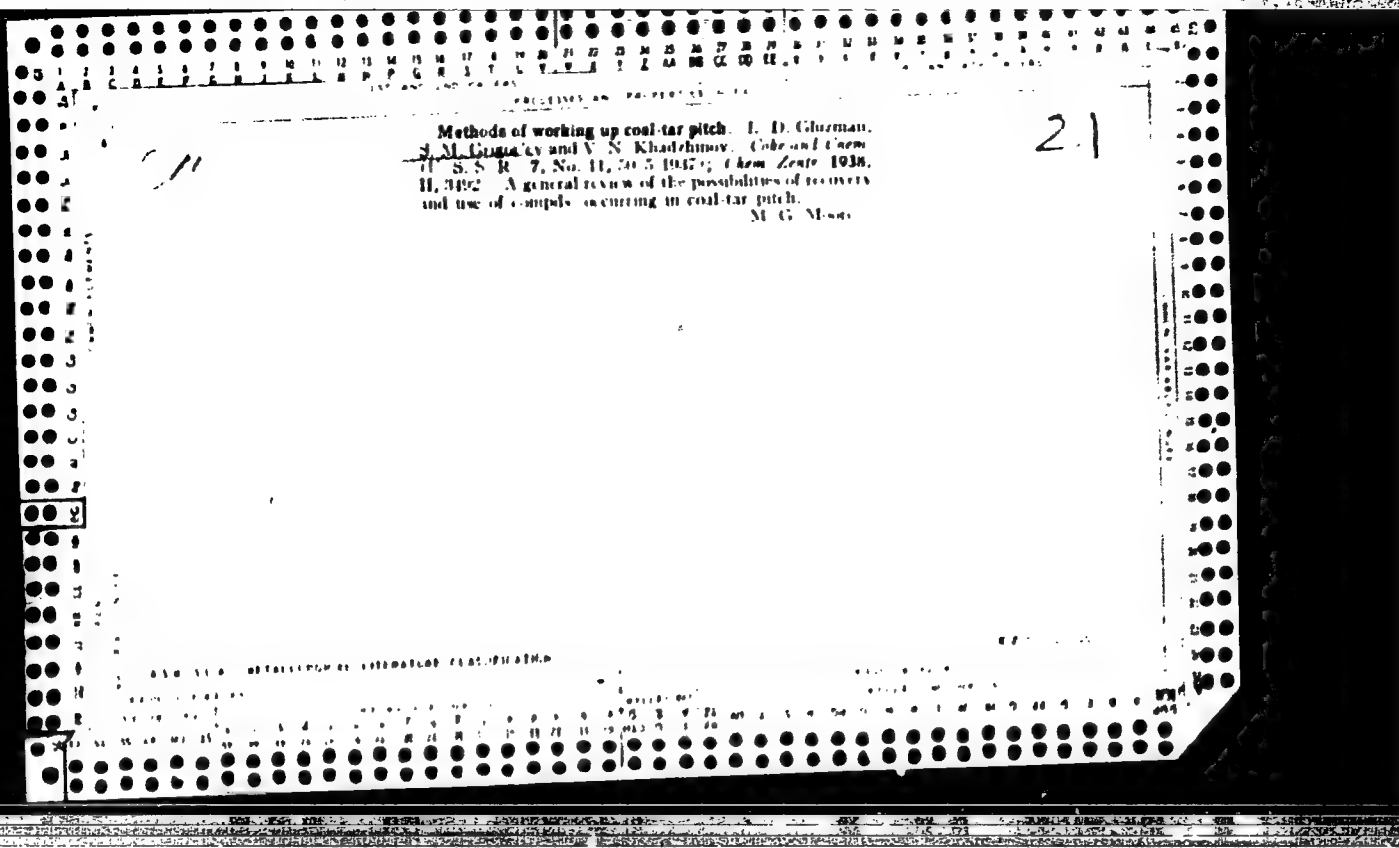
**Isolation and purification of acenaphthene from coal tar**  
 S. M. Gliguz'ev and V. N. Khadzhimov, *Org. Chem.*  
 1967, (U. S. S. R.) 4, 348-351(1937). The heavy and  
 anthracene fractions are redistilled, the fraction of b. p.  
 250-300° being collected. This is further rectified, the  
 fraction of b. p. 265-280° evoked to 20° and the crystals  
 of acenaphthene (I) are collected and again rectified,  
 the fraction of b. p. 280-282° (consists of 85-100% pure I,  
 the yield being 1.82% of theory. Other substances  
 which can be isolated from the fractions obtained in-  
 dustrially are:  $C_{12}H_8$ ,  $C_{12}H_{10}$ ,  $C_{12}H_{12}$ , naphthalene and  
 methylindoles,  $Ph_2O$  and fluorene. B. C. P. A.

A 30.36 A METALLURGICAL LITERATURE CLASSIFICATION

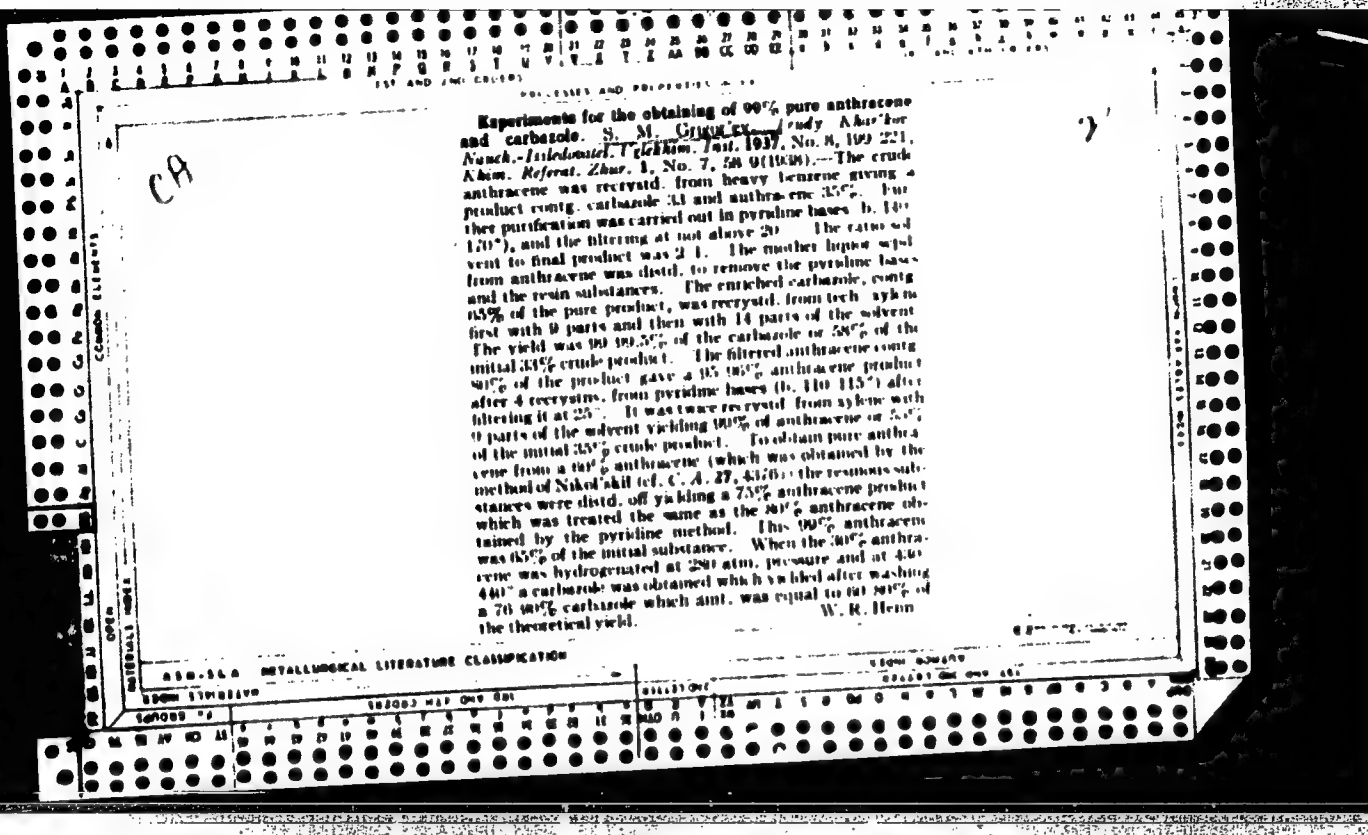
CP

The obtaining of new cyclic-compound raw materials from coal tar and from crude benzene. S. M. GIGOR'YI. *Coke and Chem. (U. S. S. R.)* 1937, No. 6, 16-19. Also *Referat. Zhur.* 1, No. 45, 130 (1938). Short description of the methods employed for the obtaining from coal tar of: anthracene, carbazole, phenanthrene, acenaphthene, fluorene, biphenyl, acridine, 2,6-dimethylnaphthalene, 3-methylnaphthalene, pyrene (up to 90% purity), 4-phenyl oxide (up to 80% purity), n-acridol, m-acridol (40% purity), and a-pyrene. Investigations are continued for the obtaining of pyrene, perylene, perylene, etc.

W. R. Hunt



137 AND 138 CODES										139 AND 140 CODES									
PROCESSES AND PROPERTIES INDEX																			
<div style="position: relative; height: 400px;"> <span style="position: absolute; top: 10px; left: 10px; font-size: 2em;">13C</span> <span style="position: absolute; top: 10px; right: 10px; font-size: 1.5em;">B-2-2</span> <div style="position: absolute; top: 30%; left: 35%; transform: rotate(-10deg);"> <p>Continuous-action crystallizer for the anthracene fraction of coal tar. S. M. Gerasimov and V. M. Farkashev (Kola i Chinn., 1957, No. 7, 58-60).—  R. T.  Apparatus is described.</p> </div> </div>																			
<div style="display: flex; justify-content: space-between;"> <div> <p>137 AND 138 CODES</p> <p>139 AND 140 CODES</p> </div> <div> <p>137 AND 138 CODES</p> <p>139 AND 140 CODES</p> </div> </div>																			
<div style="display: flex; justify-content: space-between;"> <div> <p>137 AND 138 CODES</p> <p>139 AND 140 CODES</p> </div> <div> <p>137 AND 138 CODES</p> <p>139 AND 140 CODES</p> </div> </div>																			



**Preparation of gasometer oil.**—S. M. Grogue, *ev. I. D.* Gluzman and A. S. Neppomuchenava, *Tekhn. i Khim.* (U. S. S. R.) 1936, No. 10, 1599. Anthracene oil is fractionated, the fractions are cooled, allowed to crystallize at room temp. and filtered, and the  $\eta$  of the filtrate is adjusted by adding of cylinder oil. For winter use the oil is dild with  $\text{PbCl}_2$  or  $\text{CaH}_2$ . The superiority of this over the usual freezing-out method lies in recovery of valuable *evst.* by-products. H. C. P. A.

A 19.5 L A METALLURGICAL LITERATURE CLASSIFICATION

100-440,000(1)

PROCESSING AND PROPERTIES INDEX

21

Improving the apparatus for crystallizing naphthalene.  
S. M. Gurevich, V. M. Parnosov and N. A. Gurevich.  
Zhurnal Khim. (U. S. S. R.) 1960, No. 9, 45-4; Khim.  
Mater. Zhur. 1960, No. 2, 123.—Test data are presented  
for a 0.5-cu. m. capill. crystallizer. In this crystallizer  
the temp. can be regulated, the app. is air-tight, it can  
be discharged mechanically, naphthalene does not have  
to be centrifuged, the cryst. mass of naphthalene can  
be enriched after the removal of oil, and oils very low in  
naphthalene can be obtained. The naphthalene obtained  
is more suitable for pressing than is ordinary naphthalene.  
W. R. Henn

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

100-440,000(1)

60

21

Production of fluorene, acenaphthene, diphenylene oxide and o-diphenol from coal tar, and their purification  
S. M. Grigunov, L. D. Gluzman, V. A. Ivanushkina and  
D. T. Krasavskaya. *Chem. and Chem. (U.S.S.R.)*, No.  
10, 11, 12 (1960), *Chem. & Industry* 46, 4110 (1961)  
By fusing the coal-tar fractions boiling between 275° and  
300° with solid KOH pure acenaphthene, fluorene and o-  
diphenol can be prepd. The reaction must be carried out  
at the b. p. of the fraction treated. On the other hand, by  
rectification of the suitable fractions, followed by crystal-  
lization and purification with H<sub>2</sub>SO<sub>4</sub>, fluorene and diphenylene oxide can be extd. A. Papineau-Couture

*CH*

Testing the continuous-action apparatus for the crystallization and separation of the anthracene fraction. S. M. Orlov'sky and V. M. Farslonov. *Coke and Chem.* (U.S.S.R.) 1960, No. 11-12, 81-8; *Khim. Referat. Zhur.*, 6, No. 7-8, 137(1941).—The crystallizer consists of a cylindrical vertical vessel (with a conic bottom, cover and jacket), divided into 5 chambers with various areas fixed to a common vertical shaft. W. R. Henz

*21*

ASB-SLA DETAILING LITERATURE CLASSIFICATION  
1900 1700 1800

PROCESS AND PROPERTIES INDEX																									
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS												
<p><i>ca</i></p> <p>The extraction of pyridine bases from various products of the carbonization industry. L. D. Gluzman and S. M. Grigor'ev. <i>Coke and Chem.</i> (U. S. S. R.) 11, No. 2, 30-35 (1941); <i>Chem. Zvest.</i> 1943, 1, 1126-9. — A description is given of processes and equipment used for isolating pyridine bases (I) from coal tar, crude benzene, coke-oven gas, ammonia liquor, <math>(\text{NH}_4)_2\text{SO}_4</math>, and the basic liquors of saturators. After <math>(\text{NH}_4)_2\text{SO}_4</math> removal by centrifuging, the saturator liquor is neutralized by vapors from the <math>\text{NH}_3</math> still and then steam-distilled at 100–110°. A yield of 75–80% of I with respect to the content in the liquor is obtained in the first 1–6% of condensate. The distillate containing I can be run into <math>\text{H}_2\text{SO}_4</math>, from which I is salted out by using soda <math>(\text{NH}_4)_2\text{SO}_4</math>. The upper layer contains 75% of I. The process can be made continuous, in which method <math>\text{NH}_3</math> and steam are blown through the saturator liquor at 60–80°.</p> <p style="text-align: right;">Glenn C. Soth</p>																									
<p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p>																									

LIST AND 2ND ORDER		PROCESSES AND PROPERTIES INDEX	
<p>21</p> <p>The extraction of pyridine bases from concentrated <math>\text{NH}_3</math> water in an operation for continuous operation. L. D. Hummer and G. M. Gripper. <i>Chem. and Chem. (U. S. S. R.)</i> 31, 206-21, 24-25 (1961); <i>Chem. Abstr.</i> 1962, 1, 1120; cf. preceding abstr. - Ratio of pyridine bases (I) from dil. <math>\text{NH}_3</math> liquor is not economical, but in the concd. liquor, where I is present from 8 to 10 g./l., three bases can be recovered. On the batch process, raw benzene is mixed with the <math>\text{NH}_3</math> liquor in the ratio 1:1 or 2:1, agitated 30 min. and allowed to stand for 30 min. The I in the benzene fraction is extd. by 40-50% <math>\text{H}_2\text{SO}_4</math> and the benzene round. The acid can be reused until I become 15-20% and free <math>\text{H}_2\text{SO}_4</math> is 3%. The phenol content of the benzene fraction can be extd. by 10-15% <math>\text{NaOH}</math>. A description is given of the app. for continuous treatment of the <math>\text{NH}_3</math> liquor by benzene, and including a vibrating screen for fine dispersion of benzene drops. I and phenols can be removed from the benzene in a continuous process. Glenn C. Smith</p>		<p>21</p>	
<p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p>			

Reaction apparatus S. M. Grigoriev U.S.S.R.  
07.007, Dec. 11, 1960. The vessel for carrying out the  
reactions between liquids of various ds. or between liquid  
and gases is provided with a reciprocatingly moving rod  
onto which are fastened screens M. Hosh

ALSO SEE METALLURGICAL LITERATURE CLASSIFICATION

Ca

New method for increasing the productivity and work economy of coking and by-product plants. A. A. Agroskin, B. M. Gagarin, and R. N. Pitsin. *Za Ekonomicheskuyu Topku*, No. 11/12, 14-17 (1960), cf. C. I. 40, 3804.

The efficiency of coking plants was increased by adding 1-1.5% of a hydrotreatment to the coal to be coked and thoroughly mixing the two. Suitable for this purpose are kerosene and anthracene oil. The immediate effect is to increase the wt. of a charge, but this treatment also improves the quality of the coking gas and the coke. It also permits coking of coals which ordinarily are not suitable for coking. M. Hersh

### ADD. 56 A DETAILERICAL LITERATURE CLASSIFICATION

19

PROCESSING AND PROPERTIES INDEX

431. Manufacture of Coke With Small Additions of Oil to Coal. A. A. Agroskin and E. M. Grigor'ev. Henry Bratcher (Altadena, Calif.). Translation No. 2035. 18 pages. From *Stal* (Steel), v. 6, no. 9-10, 1946, p. 633-637.

Describes above process. Reports results of laboratory studies and discusses possibilities of further improvement of the process.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

CLASSIFY ONE ONLY SEE

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CA

PROCESSES AND PROPERTIES INDEX

Coke production with micro additions of oil. A. A. Agroskin and S. M. Grigor'ev. *Stal* 6, 533-7 (1946). Wetting coking coal with 0.1% of a mineral oil (kerosene, anthracene, or a mixt. of oils) raised the production of coke by permitting a greater charge per oven. Addn. of 3% of gasification coal and wetting the charge with 0.1% of an oil raised the wt. of an oven charge by 1.8%, the yield of tar by 1.2%, and the yield of crude benzine by 1.2%.

The increased oven charge did not entail an increase in coking time.

M. Hosh

ASB. 51.4 METALLURGICAL LITERATURE CLASSIFICATION

AGROSKIN, A.A.; GRIGOR'YEV, S.M.; ZAGREBEL'NAYA, V.S.; LOSKUTOVA, Ye.N.;  
POTREBKO, I.G.; PIPIN, N.N.; CHIZHEVSKIY, M.P., akademik, otvet-  
stvennyy redaktor; VOROVITSKIY, I.B., redaktor; AUZAN, N.P.,  
tekhnicheskiiy redaktor

[Increase of the weight of coal per cubic meter by microadditives  
of liquid hydrocarbon; a collection of articles] Uvelichenie  
nasypnogo vesa uglia mikroobavkami uglevodorodnykh zhidkostei;  
sbornik rabot. Moskva, Izd-vo Akademii nauk SSSR, 1947. 398 p.  
(Coke) (Coal) (MLRA 9:9)

AGROSKIN, A.A.; GRIGOR'YEV, S.M.; PETRENKO, I.G.

Effect of the weight of the bulk density of coal on the properties of the coke produced. Izv.AN SSSR Otd.tekh.nauk no.2:205-214 '47. (MLRA 6:12)

1. Energeticheskiy institut im. G.M.Krzhishanovskogo Akademii nauk SSSR.
2. Predstavleno akademikom N.P.Chishevskim. (Coal--Carbonisation)